

SEQUENCE LISTING

<110> KATO, Kaneyoshi
MORI, Masaaki
SUZUKI, Nobuhiro
SHIMOMURA, Yukio
TAKEKAWA, Shiro
CHOH, Nobuo

<120> MCH Antagonists

<130> 2651 USOP

<140> 10/088,768

<141> 2002-03-20

<150> PCT/JP00/06376

<151> 2000-09-19

<150> JP 11-266278

<151> 1999-09-20

<150> JP 2000-221055

<151> 2000-07-17

<160> 16

<170> PatentIn version 3.0

<210> 1

<211> 32

<212> DNA

<213> artificial

<220>

<223> primer

<400> 1

gtcgacatgg atctgcaaac ctcgttgctg tg

32

<210> 2

<211> 32

<212> DNA

<213> artificial

<220>

<223> primer

<400> 2

actagttcag gtgcctttgc tttctgtcct ct

32

<210> 3

<211> 353

<212> PRT

<213> rat

RECEIVED
OCT 03 2002
TECH CENTER 1600/2900

<400> 3

Met	Asp	Leu	Gln	Thr	Ser	Leu	Leu	Ser	Thr	Gly	Pro	Asn	Ala	Ser	Asn	1	5	10	15
Ile	Ser	Asp	Gly	Gln	Asp	Asn	Leu	Thr	Leu	Pro	Gly	Ser	Pro	Pro	Arg	20	25	30	
Thr	Gly	Ser	Val	Ser	Tyr	Ile	Asn	Ile	Ile	Met	Pro	Ser	Val	Phe	Gly	35	40	45	
Thr	Ile	Cys	Leu	Leu	Gly	Ile	Val	Gly	Asn	Ser	Thr	Val	Ile	Phe	Ala	50	55	60	
Val	Val	Lys	Lys	Ser	Lys	Leu	His	Trp	Cys	Ser	Asn	Val	Pro	Asp	Ile	65	70	75	80
Phe	Ile	Ile	Asn	Leu	Ser	Val	Val	Asp	Leu	Leu	Phe	Leu	Leu	Gly	Met	85	90	95	
Pro	Phe	Met	Ile	His	Gln	Leu	Met	Gly	Asn	Gly	Val	Trp	His	Phe	Gly	100	105	110	
Glu	Thr	Met	Cys	Thr	Leu	Ile	Thr	Ala	Met	Asp	Ala	Asn	Ser	Gln	Phe	115	120	125	
Thr	Ser	Thr	Tyr	Ile	Leu	Thr	Ala	Met	Thr	Ile	Asp	Arg	Tyr	Leu	Ala	130	135	140	
Thr	Val	His	Pro	Ile	Ser	Ser	Thr	Lys	Phe	Arg	Lys	Pro	Ser	Met	Ala	145	150	155	160
Thr	Leu	Val	Ile	Cys	Leu	Leu	Trp	Ala	Leu	Ser	Phe	Ile	Ser	Ile	Thr	165	170	175	
Pro	Val	Trp	Leu	Tyr	Ala	Arg	Leu	Ile	Pro	Phe	Pro	Gly	Gly	Ala	Val	180	185	190	
Gly	Cys	Gly	Ile	Arg	Leu	Pro	Asn	Pro	Asp	Thr	Asp	Leu	Tyr	Trp	Phe	195	200	205	
Thr	Leu	Tyr	Gln	Phe	Phe	Leu	Ala	Phe	Ala	Leu	Pro	Phe	Val	Val	Ile	210	215	220	
Thr	Ala	Ala	Tyr	Val	Lys	Ile	Leu	Gln	Arg	Met	Thr	Ser	Ser	Val	Ala	225	230	235	240
Pro	Ala	Ser	Gln	Arg	Ser	Ile	Arg	Leu	Arg	Thr	Lys	Arg	Val	Thr	Arg	245	250	255	
Thr	Ala	Ile	Ala	Ile	Cys	Leu	Val	Phe	Phe	Val	Cys	Trp	Ala	Pro	Tyr	260	265	270	
Tyr	Val	Leu	Gln	Leu	Thr	Gln	Leu	Ser	Ile	Ser	Arg	Pro	Thr	Leu	Thr	275	280	285	

Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly Tyr Ala Asn Ser
 290 295 300

Cys Leu Asn Pro-Phe Val Tyr Ile Val Leu Cys Glu Thr Phe Arg Lys
 305 310 315 320

Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln Gly Gln Leu Arg Thr
 325 330 335

Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg Thr Glu Ser Lys Gly
 340 345 350

Thr

<210> 4
 <211> 1074
 <212> DNA
 <213> rat

<400> 4
 gtcgacatgg atctgcaaac ctcggttgctg tccactggcc ccaatgccag caacatctcc 60
 gatggccagg ataatctcac attgccgggg tcacctctc gcacagggag tgtctctac 120
 atcaacatca ttatgccttc cgtgtttggt accatctgtc tcttgggcat cgtgggaaac 180
 tccacggtca tctttgctgt ggtgaagaag tccaagctac actggtgcag caacgtcccc 240
 gacatcttca tcatcaacct ctctgtggtg gatctgctct tcttgttggg catgcctttc 300
 atgatccacc agctcatggg gaacggcgctc tggcactttg gggaaaccat gtgcacctc 360
 atcacagcca tggacgcca cagtcagttc actagcaact acatctgac tgccatgacc 420
 attgaccgt acttgggcac cgtccacccc atctctcca ccaagttccg gaagccctcc 480
 atggccaccc tgggtgatctg cctcctgtgg gcgctctct tcatcagtat caccctgtg 540
 tggctctacg ccaggctcat tcccttccca gggggtgctg tgggctgtgg catccgctg 600
 ccaaaccogg acactgacct ctactggttc actctgtacc agtttttctt ggcttttggc 660
 cttccgtttg tggtcattac cgcgcatac gtgaaaatac tacagcgcat gacgtcttcg 720
 gtggccccag cctcccaacg cagcatccgg ctccggacaa agagggtgac ccgcacggcc 780
 attgccatct gtctggtctt ctttgtgtgc tgggcacct actatgtgct gcagctgacc 840
 cagctgtcca tcagccgccc gacctcacg tttgtctact tgtacaacgc ggccatcagc 900
 ttgggctatg ctaacagctg cctgaacccc tttgtgtaca tagtgctctg tgagacctt 960
 cgaaaacgct tgggtgtgtc agtgaagcct gcagcccagg ggcagctccg cacggctcagc 1020
 aacgctcaga cagctgatga ggagaggaca gaaagcaaag gcacctgaac tagt 1074

<210> 5
 <211> 262
 <212> RNA
 <213> rat

<400> 5
 gcgaauuggg uaccggggccc cccucgagg ucgacggau cgauaagcuu gauaucgaau 60
 uccugcagcc cgggggaucc gccacuagu ucaggugccu uugcuuucug uccucuccuc 120
 aucagcuguc ugagcguugc ugaccgugcg gagcugcccc ugggcugcag gcuucacuga 180
 caacaccaag cguuuucgaa agguucacac gagcacuaug uacacaaagg gguucaggca 240
 gcuguuagca uagcccaagc ug 262

<210> 6
 <211> 18
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 6
 caacagctgc ctcaaccc 18

<210> 7
 <211> 18
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 7
 cctggtgatc tgcctcct 18

<210> 8
 <211> 1275
 <212> DNA
 <213> human

<400> 8
 taggtgatgt cagtgggagc catgaagaag ggagtgggga gggcagttgg gcttggaggc 60
 ggcagcgggt gccaggctac ggaggaagac ccccttccca actgcggggc ttgcgctccg 120
 ggacaaggtg gcaggcgctg gaggctgccg cagcctgcgt gggaggagg gagctcagct 180
 cggttgtggg agcaggcgac cggcactggc tggatggacc tggaagcctc gctgctgccc 240
 actggtocca acgccagcaa cacctctgat ggccccgata acctcacttc ggcaggatca 300

cctcctcgca cggggagcat ctctacatc aacatcatca tgccttcggt gttcgggcacc 360
-----atctgcctcc tgggcatcat cgggaactcc acggtcatct tcgcggtcgt gaagaagtcc 420
aagctgcaact ggtgcaacaa cgtccccgac atcttcatca tcaacctctc ggtagtagat 480
ctctcttttc tcttgggcat gcccttcatg atccaccagc tcatgggcaa tggggtgtgg 540
cactttgggg agaccatgtg caccctcatc acggccatgg atgccaatag tcagttcacc 600
agcacctaca tcttgaccgc catggccatt gaccgctacc tggccactgt ccaccccatc 660
tcttccacga agttccggaa gccctctgtg gccaccctgg tgatctgcct cctgtggggc 720
ctctccttca tcagcatcac cctgtgtgg ctgtatgcca gactcatccc cttcccagga 780
ggtgcagtgg gctgcggcat acgctgccc aaccagaca ctgacctcta ctggttcacc 840
ctgtaccagt ttttctggc ctttgccctg ccttttgtgg tcatcacagc cgcatacgtg 900
aggatcctgc agcgcattgac gtctcagtgt gccccgcct cccagcgcag catccggctg 960
cggacaaaga gggtgaccgc cacagccatc gccatctgtc tggctctctt tgtgtgctgg 1020
gcacctact atgtgtaca gctgaccag ttgtccatca gccgcccgc cctcaccttt 1080
gtctacttat acaatgcggc catcagcttg ggctatgcca acagctgcct caacctctt 1140
gtgtacatcg tgcctgtga gacgttccgc aaacgcttgg tctgtcggg gaagcctgca 1200
gccagggggc agcttcgcgc tgtcagcaac gctcagacgg ctgacgagga gaggacagaa 1260
agcaaaggca cctga 1275

<210> 9
<211> 422
<212> PRT
<213> human

<400> 9

Met	Ser	Val	Gly	Ala	Met	Lys	Lys	Gly	Val	Gly	Arg	Ala	Val	Gly	Leu
1				5					10					15	
Gly	Gly	Gly	Ser	Gly	Cys	Gln	Ala	Thr	Glu	Glu	Asp	Pro	Leu	Pro	Asn
			20					25					30		
Cys	Gly	Ala	Cys	Ala	Pro	Gly	Gln	Gly	Gly	Arg	Arg	Trp	Arg	Leu	Pro
		35					40					45			
Gln	Pro	Ala	Trp	Val	Glu	Gly	Ser	Ser	Ala	Arg	Leu	Trp	Glu	Gln	Ala
	50					55					60				
Thr	Gly	Thr	Gly	Trp	Met	Asp	Leu	Glu	Ala	Ser	Leu	Leu	Pro	Thr	Gly
65					70					75					80

Pro Asn Ala Ser Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala
 85 90 95

Gly Ser Pro Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met
 100 105 110

Pro Ser Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser
 115 120 125

Thr Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
 130 135 140

Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu
 145 150 155 160

Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly Asn Gly
 165 170 175

Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp
 180 185 190

Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr Ala Met Ala Ile
 195 200 205

Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg
 210 215 220

Lys Pro Ser Val Ala Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser
 225 230 235 240

Phe Ile Ser Ile Thr Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe
 245 250 255

Pro Gly Gly Ala Val Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr
 260 265 270

Asp Leu Tyr Trp Phe Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu
 275 280 285

Pro Phe Val Val Ile Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met
 290 295 300

Thr Ser Ser Val Ala Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr
 305 310 315 320

Lys Arg Val Thr Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val
 325 330 335

Cys Trp Ala Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser
 340 345 350

Arg Pro Thr Leu Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu
 355 360 365

Gly Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
 370 375 380

Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln
 385 390 395 400

Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg
 405 410 415

Thr Glu Ser Lys Gly Thr
 420

<210> 10
 <211> 31
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 10
 gtcgacatgg acctggaagc ctcgctgctg c 31

<210> 11
 <211> 31
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 11
 actagttcag gtgcctttgc tttctgtcct c 31

<210> 12
 <211> 33
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 12
 agtcgacatg tcagtgggag ccatgaagaa ggg 33

<210> 13
 <211> 33
 <212> DNA
 <213> artificial

<220>
 <223> primer

<400> 13
 aactagtcca ggtgcctttg cttctgtcc tct 33

<210> 14
 <211> 1074
 <212> DNA
 <213> human

<400> 14
 gtcgacatgg acctggaagc ctcgctgctg cccactggtc ccaacgccag caacacctct 60
 gatggccccg ataacctcac ttcggcagga tcacctcttc gcacggggag catctcctac 120
 atcaacatca tcatgccttc ggtgttcggc accatctgcc tcctgggcat catcggaac 180
 tccacggtca tcttcgcggt cgtgaagaag tccaagctgc actggtgcaa caacgtcccc 240
 gacatcttca tcatcaacct ctcggtagta gatctcctct ttctcctggg catgcccttc 300
 atgatccacc agctcatggg caatgggggtg tggcactttg gggagaccat gtgcaccttc 360
 atcacggcca tggatgcca tagtcagttc accagcacct acatcctgac cgccatggcc 420
 attgaccgct acctggccac tgtccacccc atctcttcca cgaagtccg gaagccctct 480
 gtggccaccc tggatgatctg cctcctgtgg gccctctcct tcatcagcat caccctgtg 540
 tggctgtatg ccagactcat ccccttccca ggaggtgcag tgggctgcgg catacgctg 600
 cccaaccag aactgacct ctactggttc accctgtacc agtttttcct ggcctttgcc 660
 ctgccttttg tggatcatcac agccgcatac gtgaggatcc tgcagcgcac gacgtcctca 720
 gtggcccccg cctcccagcg cagcatccgg ctgcggaaca agaggggtgac ccgcacagcc 780
 atcgccatct gtctggtctt ctttgtgtgc tgggcaccct actatgtgct acagctgacc 840
 cagttgtcca tcagccgcc gaccctcacc tttgtctact tatacaatgc ggccatcagc 900
 ttgggctatg ccaacagctg cctcaacccc tttgtgtaca tcgtgctctg tgagacgttc 960
 cgcaaacgct tggctcctgtc ggtgaagcct gcagcccagg ggcagcttcg cgctgtcagc 1020
 aacgctcaga cggctgacga ggagaggaca gaaagcaaag gcacctgaac tagt 1074

<210> 15
 <211> 1283
 <212> DNA
 <213> human

<400> 15
 agtcgacatg tcagtgggag ccatgaagaa gggagtgggg agggcagttg ggcttggagg 60
 cggcagcggc tgccaggcta cggaggaaga ccccttccc aactgcgggg cttgcgctcc 120
 gggacaagggt ggcaggcgct ggaggctgcc gcagcctgcg tgggtggagg ggagctcagc 180
 tcggttgtgg gagcaggcga ccggcactgg ctggatggac ctggaagcct cgctgctgcc 240

cactgggtccc aacgccagca acacctctga tggccccgat aacctcactt cggcaggatc	300
acctcctcgc acggggagca tctcctacat caacatcadc atgccttcgg tgttcggcac	360
catctgcctc ctgggcatca tcgggaactc cacggtcadc ttcgcggtcg tgaagaagtc	420
caagctgcac tgggtgaaca acgtccccga catcttcadc atcaacctct cggtagtaga	480
tctcctcttt ctcttgggca tgcccttcac gatccaccag ctcatgggca atgggggtgtg	540
gcactttggg gagaccatgt gcacctcat cacggccatg gatgccaata gtcagttcac	600
cagcacctac atcctgaccg ccatggccat tgaccgetac ctggccactg tccaccccat	660
ctcttccacg aagttccgga agccctctgt ggccaccctg gtgatctgcc tctgtgggc	720
cctctccttc atcagcatca cccctgtgtg gctgtatgcc agactcatcc ccttcccagg	780
aggtgcagtg ggctgcggca tacgcctgcc caaccagac actgacctct actgggtcac	840
cctgtaccag tttttcctgg cctttgccct gccttttgtg gtcatacacag ccgcatacgt	900
gaggatcctg cagcgcataga cgtcctcagt ggcccccgcc tcccagcgca gcatccggct	960
gcggacaaag agggtgaccc gcacagccat cggcatctgt ctgggtcttct ttgtgtgctg	1020
ggcaccctac tatgtgtac agctgaccca gttgtccatc agccgcccga ccctcacctt	1080
tgtctactta tacaatgcgg ccatcagctt gggctatgcc aacagctgcc tcaaccctt	1140
tgtgtacatc gtgtctgtg agacgttccg caaacgcttg gtctgtcgg tgaagcctgc	1200
agcccagggg cagcttcgcg ctgtcagcaa cgctcagacg gctgacgagg agaggacaga	1260
aagcaaaggc acctgaacta gtt	1283

<210> 16
 <211> 420
 <212> RNA
 <213> human

<400> 16	
caaaagcugg agcuccaccg cgguggcggc cgcucuagcc cacuaguca ggugccuuug	60
cuuucugucc ucuccucguc agccgucuga gcguugcuga cagcgcgaag cugccccugg	120
gcugcaggcu ucaccgacag gaccaagcgu uugcggaacg ucucacagag cacgauguac	180
acaaaggggu ugaggcagcu guuggcauag cccaagcuga uggccgcauu guauaaguag	240
acaaagguga gggucgggcg gcugauggac aacuggguca gcuguagcac auaguagggu	300
gcccgacaca caaagaagac cagacagaug gcgauggcug ugcgggucac ccucuuuguc	360
cgcagccgga ugcugcgcug ggaggcgggg gccacugagg acgucaugcg cugcaggau	420